

# Progress Update for the Lower 8.3 Miles of the Passaic River (OU2)

- Remedial Design
- Field Work



# Remedial Design Milestones

## Complete

- ✓ Project Management Plan
- ✓ Pre-Design Investigation Work Plan
- ✓ Remedial Design Work Plan
- ✓ Site Selection and Evaluation Work Plan
- ✓ Site Selection and Evaluation Report
- ✓ Preliminary (30%) Remedial Design – March 29, 2019

## Remaining

- ☐ Pre-Design Investigation Evaluation Report
- ☐ Intermediate (60%) Remedial Design
- ☐ Pre-Final (95%) Remedial Design
- ☐ Final (100%) Remedial Design

## Ongoing

- EPA Oversight Reimbursement
- Corporate Financial Assurance



## Preliminary (30%) Design Deliverables to EPA

- Design Criteria Report: Compiles the criteria and requirements that the design will need to meet
- Basis of Design Report: Engineering evaluations and analyses on which the design components will be based
- Preliminary Drawings: Detailed representation of existing conditions, some preliminary design
- Transportation and Off-Site Disposal Plan: Initial evaluation of disposal options



## Design Elements for the Intermediate (60%) Design

- Cap Design
  - > No change in flood rise potential
  - > Resist erosion
  - > Isolate deeper impacted sediments
- Dredge Plan
  - > Design for physical constraints
  - > Make room for cap
  - > Minimize sediment resuspension
- Sediment Processing Facility
  - > Sediment dewatering
  - > Water treatment

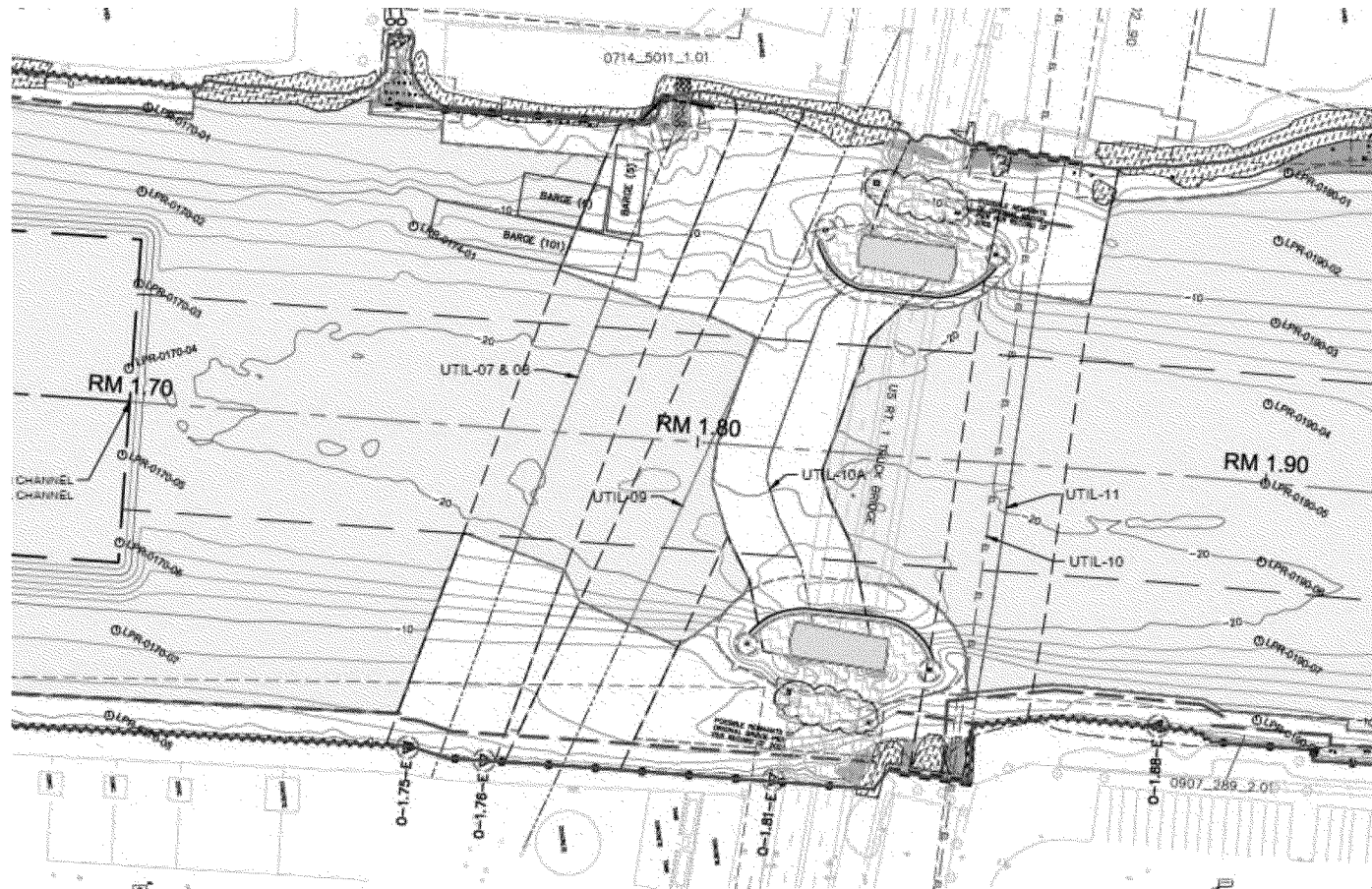




# Existing Conditions Detail

## Physical Constraints

- > Bridges
- > Utilities
- > Hardened Shoreline
- > Outfalls
- > Mudflats

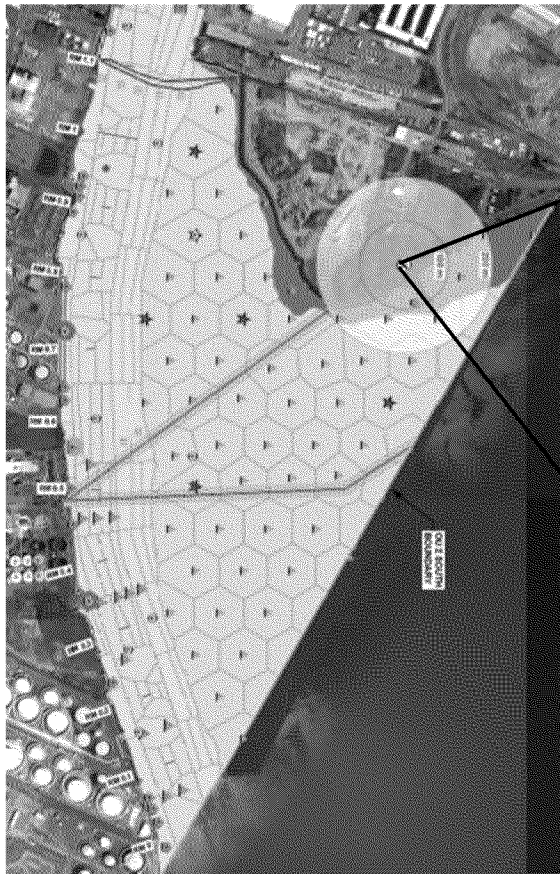


## 2019 Additional Pre-Design Activities

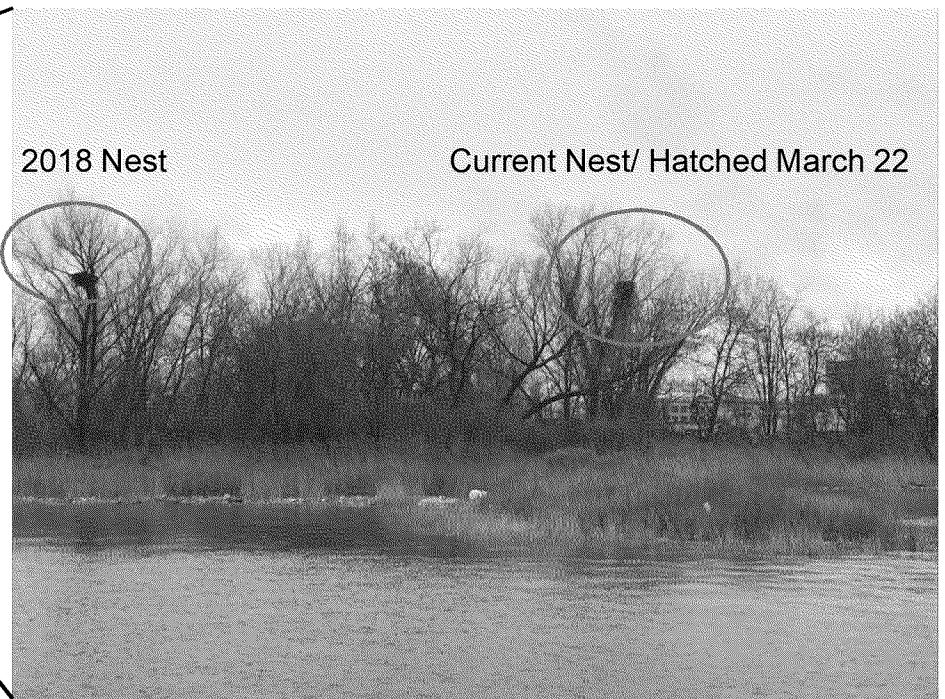
- Sediment core collection near bridges, utilities and Kearny Point for chemistry
- Geotechnical Marine borings and bulkhead/shoreline work
- Pore water sampling within sediments
- Engineering studies with data collected last year (Treatability Studies)
  - > Cap Material Selection
  - > Cap Constructability and Placement Methods
  - > Water Treatment Technology Review
  - > Sand Separation Testing



## Additional Data Collection Near Kearny Point – March-June 2019



### Bald Eagle Nest – Kearny Point



## Geotechnical Borings – March-June 2019

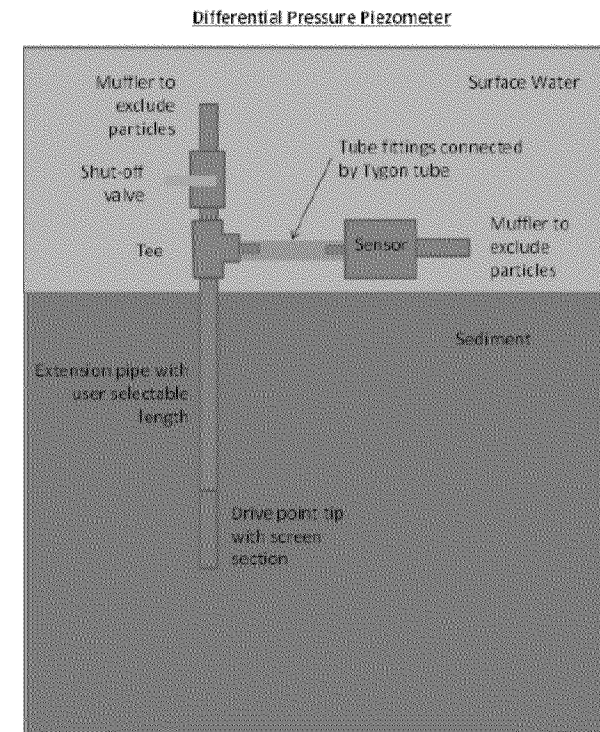


## Bulkhead and Structures Surveys - Parallel Seismic

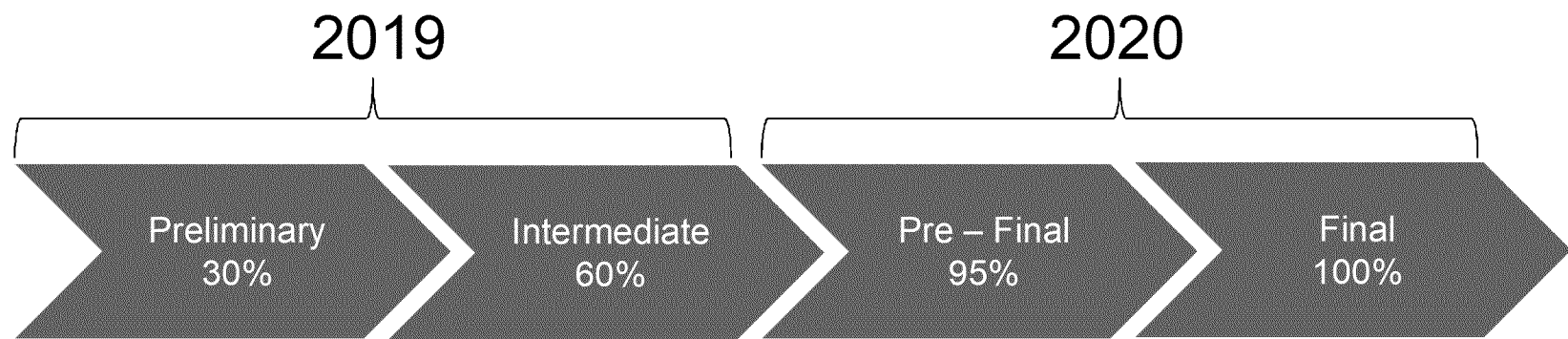




# Pore Water Field Work – Underwater Equipment Installation



# Design Engineering Process



Thank You

